EC DECLARATION OF CONFORMITY

We,

Impacto Protective Products Inc. P.O. Box 524, 40 Dussek Belleville, ON K8N 5B2

Canada

Declare that the PPE described here after,

7590 (AVPRO - AV7590)

are in conformity with the provisions of Council Directive 89/686/EEC and, with the national standards no. EN 388:2003, EN 420:2003+A1:2009 and EN ISO 10819:2013.

this declaration of conformity is issued under the sole responsibility of the manufacturer;

The technical Construction File is maintained at the following addresses:

1. Impacto Protective Products Inc. 40 Dussek St., P.O. Box 524 Belleville, ON K8N 5B2 Canada

> Tel 0613 9660 062 Fax 0613 9660 067 UK free phone 0800 0280 243

impacto@impacto.ca Email Contact Mr. Eric Lehtinen

Authorized Signatory

Date 17-Sep-19

Name: Eric Lehtinen

Position: President

Impacto Protective Products Inc.



SATRA Technology Centre Ltd Wyndham Way, Telford Way, Kettering, Northamptonshire, NN16 8SD United Kingdom Tel: +44 (0) 1536 410000 Fax +44 (0) 1536 410626 email: info@satra.co.uk www.satra.co.uk



Customer details:

SATRA reference: SPC0227285 /1432

Your reference:

Date of report: 12 August 2014

Samples received: 4 August 2014

For the attention of: Zhong Ping

TECHNICAL REPORT

Testing of glove identified as 7590 in accordance with EN 388: 2003 and EN 420: 2003 Subject: + A1: 2009

Conditions of Issue:

This report may be forwarded to other parties provided that it is not changed in any way. It must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.

Results given in this report refer only to the samples submitted for analysis and tested by SATRA. Comments are for quidance only.

Tests marked † fall outside the UKAS Accreditation Schedule for SATRA. All interpretations of results of such tests and the comments based upon them are outside the scope of UKAS accreditation and are based on current SATRA knowledge.

A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the client as a result of information supplied in the report.

The uncertainty of the results in this report is based on a standard uncertainty multiplied by a coverage factor k=2, which provides for a confidence level of approximately 95%

Report signed by: Adam Mortibovs Position: PPE Technologist Department:

Safety Products Centre



TECHNICAL REPORT



Work Requested

Samples of gloves, see Table 1, were received by SATRA, for testing in accordance with EN 388:2003 and EN 420:2003 + A1:2009.

Table 1 - Samples Received

Sample description as stated by	Sizes submitted for	Colour of samples	Approximate weight of one
the client	testing	submitted	glove
7590	8 - 11	Black and yellow textile glove	Size: 10 Weight: 52.2g



Conclusion

Standard		Clause / Property	Result
EN 400-0000 - 14-0000	5.1	Length and fit	See note A
EN 420:2003 + A1:2009	5.2	Dexterity	Level 5
EN 388:2003	6.1	Abrasion resistance	Level 2
	6.2	Blade cut resistance	See note D
	6.3	Tear resistance	Level 1
	6.4	Puncture resistance	Level 0

Note A - Where gloves do not meet the minimum length requirements specified in Table 1 of EN 420:2003 + A1:2009, the standard therefore requires that the manufacturer shall clearly state in the user instructions the intended application of the gloves and the reason why the gloves do not conform to the minimum length requirements.

Signed:

SATRA

TECHNICAL REPORT



Testing

Samples for testing were conditioned for at least 24 hours in a conditioned environment maintained at (23±2) °C and (50±5) % relative humidity. Testing was carried out within the same environment.

Requirements

Table 2 - Requirements for EN 420:2003 + A1:2009 Clause 5 Size and Dexterity

Glove size	6	7	8	9	10	11
Minimum length / mm	220	230	240	250	260	270
Performance level	1	2	1 3	3	4	5
Diameter of dexterity pin /mm	11.0	0.5	8.	0	6.5	5.0

Table 3 - Requirements for EN 388:2003

Performance Level	1	2	3	4	5
6.1 Abrasion resistance (cycles to failure)	100	500	2000	8000	N/A
6.2 Blade cut resistance (minimum cut resistance index)	1.2	2.5	5.0	10	20
6.3 Tear resistance (lowest peak force / N)	10	25	50	75	N/A
6.4 Puncture resistance (lowest peak force / N)	20	60	100	150	N/A

Test Results

EN 420:2003 + A1:2009 Test Results

Clause / Test	Requirement	Test Results			UoM (See note B)	Result
5.1 Glove length, comfort and fit	See table 2	9 Comment 10 Comment	Lengt Left 215 so on fit: Satisfacto 220 so on fit: Satisfacto 226 so on fit: Satisfacto 224 so on fit: Satisfacto	219 rry 230 rry 224	±0.3 mm	See note A
5.2 Dexterity	See table 2	Size 8 9 10 11	8 5.0 9 5.0 10 5.0		N/A	Level 5

Signed:

adam martibays



TECHNICAL REPORT



EN 388:2003 Test Results

Clause / Test	Requirement	Test Results		UoM (See note B)	Leve
6.1 Abrasion resistance	A	1 2 3 4 Klingspor Abrasiv Abrasion machine Clause 6.1.3	compliant with EN 388: 1994	±5% See note C	2
		Sample Left	Cut index 8.88 9.04 8.06 7.70 7.46	ne.	
6.2 Blade cut resistance		Mean	8.23 7.58 4.37	± 1.11	See note (
C1 - 10	See table 3	Right	4.70 4.90 7.23	1200	Δ.
014 1014 157 50	Mean 5.75 Testing carried out using OLFA RB 45" Blades and canvas referenced LEM 6 coton écru purchased from Latim S.A.S.		MCCO.	MA	
6.3 Tear resistance		Sample 1 2 3 4	Peak force / N 19.4 18.7 22.0 22.5	±2.1 N	2 2 2
6.4 Puncture resistance		Sample 1 2 3 4	Peak force / N 6.7 6.6 9.0 7.4	±2.1 N	0

Additional Information / Notes

Note B – 'UoM' denotes estimated Uncertainty of Measurement for stated test results. This uncertainty value is based on a standard uncertainty multiplied by a coverage factor k = 2, which provides for a confidence level of approximately 95%

Note C – Estimated uncertainty of measurement applied at point of test (e.g. to applied force or to tolerance limits) to ensure product meets requirements of the standard

Note D – Test result(s) would meet the requirements of EN 388:2003 Clause 6.2 Blade cut resistance for a level 3 if uncertainty of measurement was not taken into account. However, if uncertainty (as stated in UoM column) is applied, this result may be considered to fulfil the requirements of a level 2 only.

adam markhayo